

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

11/17

gggaggtcgac	ccacgggtcc	ggtaggcctgg	tgctctttct	c	atg	gct	tca	ccc	agc	56						
					Met	Ala	Ser	Pro	Ser	5						
Leu	Pro	Gly	Ser	Asp	Cys											
10	15	20	25	30	35	40	45	50	55	60						
gag	ttt	gag	gtg	gcc	acc	tgg	atc	aaa	atc	acc	ctt	att	ctg	gtg	tac	152
Glu	Phe	Glu	Vai	Ala	Thr	Trp	Ile	Lys	Ile	Thr	Ile	Leu	Ile	Leu	Val	Tyr
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	
gtc	atc	atc	ttc	gtg	atg	ggc	ctt	ctg	ggg	aac	agg	gcc	acc	att	cgg	200
Leu	Ile	Ile	Phe	Val	Met	Gly	Leu	Leu	Gly	Asn	Ser	Ala	Thr	Ile	Arg	
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	
gac	acc	cag	gtg	ctg	cag	aag	aaa	gga	tac	ttg	cag	aag	gag	gtg	aca	248
Asp	His	Met	Val	Gln	Val	Leu	Gln	Lys	Gly	Tyr	Leu	Gln	Lys	Glu	Val	Thr
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	
ggc	atg	ccc	atg	ttc	tac	gag	ttc	tgc	tgc	gac	atc	ttg	gtg	ttc	atc	296
Gly	Met	Pro	Met	Glu	Phe	Tyr	Ser	Ile	Ile	Cys	Ser	Asp	Ile	Leu	Val	Ile
10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	

FIG. 1A

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCNIM

2/17

tcc	agc	tac	acc	ctg	tcc	tgc	aag	ctg	cac	act	ttc	ctc	tgc	gag	gcc	392
Ser	Ser	Tyr	Thr	Leu	Ser	Cys	Lys	Leu	His	Thr	Phe	Leu	Phe	Glu	Ala	
																105
																110
																115
tgc	agc	tac	gct	acg	ctg	ctg	cac	gtg	ctg	aca	ctc	agc	ttt	gag	cgc	440
Cys	Ser	Tyr	Ala	Thr	Ile	Leu	Leu	Val	Leu	Thr	Leu	Ser	Phe	Glu	Arg	
																120
																125
tac	atc	gcc	atc	tgt	cac	ccc	ttc	agg	tac	aag	gct	gtg	tgg	gga	cct	488
Tyr	Ile	Ala	Ile	Cys	His	Pro	Phe	Arg	Tyr	Lys	Ala	Val	Ser	Gly	Pro	
																135
tgc	cag	gtg	aag	ctg	ctg	att	ggc	ttc	gtc	gtc	acc	tcc	gcc	ctg	536	
Cys	Gln	Val	Lys	Ile	Leu	Ile	Gly	Phe	Val	Trp	Val	Thr	Ser	Ala	Leu	
																150
																155
gtg	gca	ctg	ccc	ttg	ctg	ttt	gcc	atg	gtt	act	gag	tac	ccc	ctg	gtg	584
Val	Ala	Leu	Pro	Leu	Leu	Phe	Ala	Met	Gly	Thr	Glu	Tyr	Pro	Leu	Val	
																170
																175
aac	gtg	ccc	agc	cac	cgg	gggt	ctc	act	tgc	aaa	cgc	tcc	agc	acc	cgc	632
Asn	Val	Pro	Ser	His	Arg	Gly	Leu	Thr	Cys	Asn	Arg	Ser	Ser	Thr	Arg	
																185
																190
cac	cac	gag	cag	ccc	gag	acc	tcc	aat	atg	tcc	atc	tgt	acc	aac	ctc	680
His	His	Glu	Gln	Pro	Glu	Thr	Ser	Asn	Met	Ser	Ile	Cys	Thr	Asn	Leu	
																200
																205

FIG. IB

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCNIM

3/17

tcc agc cgc tgg acc gtg ttc cag tcc agc atc ttc ggc gcc ttc gtg
 Ser Ser Arg Trp Thr Val Phe Gln Ser Ser Ile Phe Gly Ala Phe Val
 215 220 225

gtc tac ctc gtc gtc ctc tcc gta gcc ttc atg tgc tgg aac atg 776
 Val Tyr Leu Val Val Leu Ser Val Ala Phe Met Cys Trp Asn Met
 230 235 240 245

atg cag gtg ctc atg aaa agc cag aag ggc tcg ctg gcc ggg ggc acg 824
 Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser Leu Ala Gly Gly Thr
 250 255 260

cgg cct ccg cag ctg agg aag tcc gag agc gaa gag agc agg acc gcc 872
 Arg Pro Pro Gln Leu Arg Lys Ser Glu Ser Glu Ser Arg Thr Ala
 265 270 275

agg agg cag acc atc atc ttc ctg agg ctg att gtt gtg aca ttg gcc 920
 Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile Val Val Thr Leu Ala
 280 285 290

gtt tgc tgg atg ccc aac cag att cgg agg atc atg gct gcg gcc aaa 968
 Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile Met Ala Ala Ala Lys
 295 300 305

ccc aag cac gac tgg acc agg tcc tac ttc cgg gcg tac atg atc ctc 1016
 Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg Ala Tyr Met Ile Leu
 310 315 320 325

FIG. 1C

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCNM1

4/17

ctc ccc ttc tcg gag cag ttt ttc tac ctc agc tcg gtc atc aac ccg	1064
Leu Pro Phe Ser Glu Thr Phe Tyr Leu Ser Val Ile Asn Pro	
330	335
340	
ctc ctg tac acg gtg tcc tcg cag cag ttt cgg cgg gtg ttc gtg cag	1112
Leu Leu Tyr Thr Val Ser Gln Gln Phe Arg Arg Val Phe Val Gln	
345	350
355	
gtg ctg tgc tgc cgc ctg tcg ctg cag cac gcc aac cac gag aag cgc	1160
Val Leu Cys Cys Arg Leu Ser Leu Gin His Ala Asn His Glu Lys Arg	
360	365
370	
ctg cgc gta cat gcg cac tcc acc acc gac agc gcc cgc tt ttt gtg cag	1208
Leu Arg Val His Ala His Ser Thr Thr Asp Ser Ala Arg Phe Val Gln	
375	380
385	
cgc ccg ttg ctc ttc gcg tcc cgg cgg cgg cag tcc tct gca agg aga act	1256
Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser Ser Ala Arg Arg Thr	
390	395
400	
405	
gag aag att ttc tta agc act ttt cag agc gag gcc gag ccc cag tct	1304
Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Glu Ala Glu Pro Gln Ser	
410	415
420	
aag tcc cag tca ttg agt ctc gag tca cta gag ccc aac tca ggc ggc	1352
Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu Pro Asn Ser Gly Ala	
425	430
435	

FIG. ID

Applicant: Galvin, Katherine M., et al.
Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCNIM

5/17

aaa cca gcc aat tct gct gca gag aat ggt ttt cag gag cat gaa gtt 1400
Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe Gln Glu His Glu Val
445 450

tgaatgtcaa gcgaggaggc cttgagggtgg aactggccct ccagccctaa gaaaaacgtca 1460

ctctcactct gcagtcctaa actctgcccc catcagggtt ggaatggaca ctggaggcct 1520

tacaaaaaggc agatgcccac ctcagtgact tctaaggact gactctggcca gcctggccct 1580

gactccgggtt acacagacat ggggggtgaac ttccactccaa cctcccttcc tcaagtacat 1640

actgaaaaatt cagtcaagct gaatttattc agaaatgttt accggagctt ttcattttt 1700

gcacaggaaac aaaaagagaac acggactccc gctccctacc cagaataaaa ggacacccag 1760

aagaaaaactca ctcaggagg tggggggttg ggggggggg ctggaaagaac aatgcaggag 1820

gggggtggcat ctccttcagg ttccagcagtg tgccgacaag aggcttaatt tgaggaaacag 1880

gatgggtggtg cggaggccctg gcctgaggggc cgaggcagaa cttccccc ttctgggccc 1940

tggcccgatca caaaggagggg tgttgccagca gctgatgcaa actgagttca gtttccctgg 2000

ggaggcagaag gactgggtacc cggcaggaggc gatgaggacag gccggctgtatg atgcacaggaa 2060

cttgcgggtac atgatcccg cactttgtctg catcacttct ttctgacacaca tgtcttgaac 2120

FIG. I E

Applicant: Galvin, Katherine M., et al.
Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCNIM

6/17

gttcacccgtg caattcaccaa tgaactcggg ggaggaggcag tcgttgttca gctggaaattc 2180
ttcacacactgg tagcactgg ttgcagcgc aaagccttgc ggactccgg gatatggccccg 2240
tgctatctt cgccttcctt cccgaggcctt gcaggcagggtg gtgcgggaga ccgcttgccc 2300
gccggaggcgtgc gttgggtggcc ccggcccca cccatccatt tccgcacatt 2360
ccttagggag catccatttc cgtggaaatc gcctctctaag cttagctcc tttcacccct 2420
tttctcccccc ggccacttctt gggggcagct ctctcacgccc gggacgcaga tcatttaatt 2480
ctgcatcgcn tcngcagcgc tggctctgtaa agggtcttaa atgacttt 2528

FIG. II

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

7/17

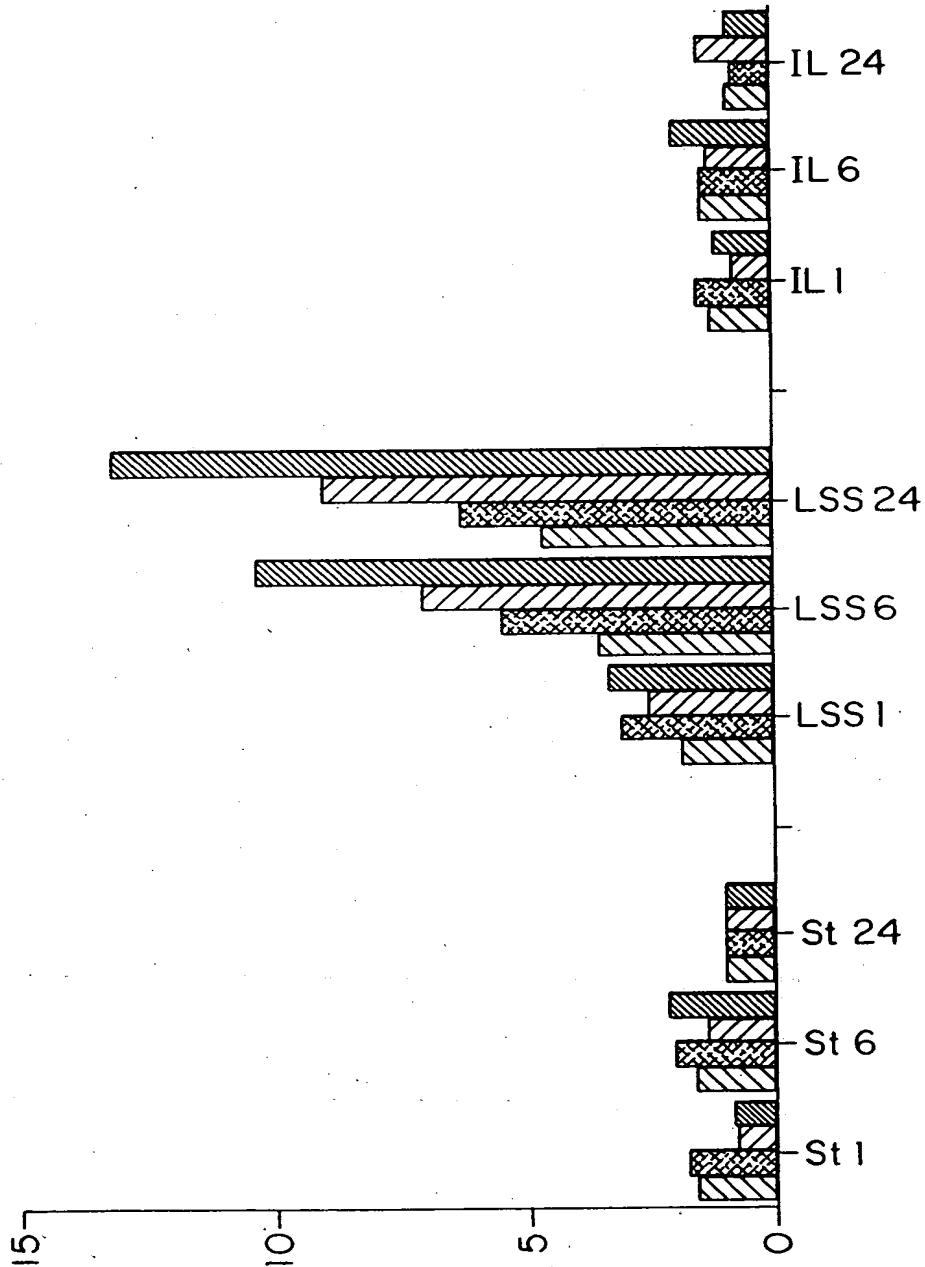


FIG. 2

8/17

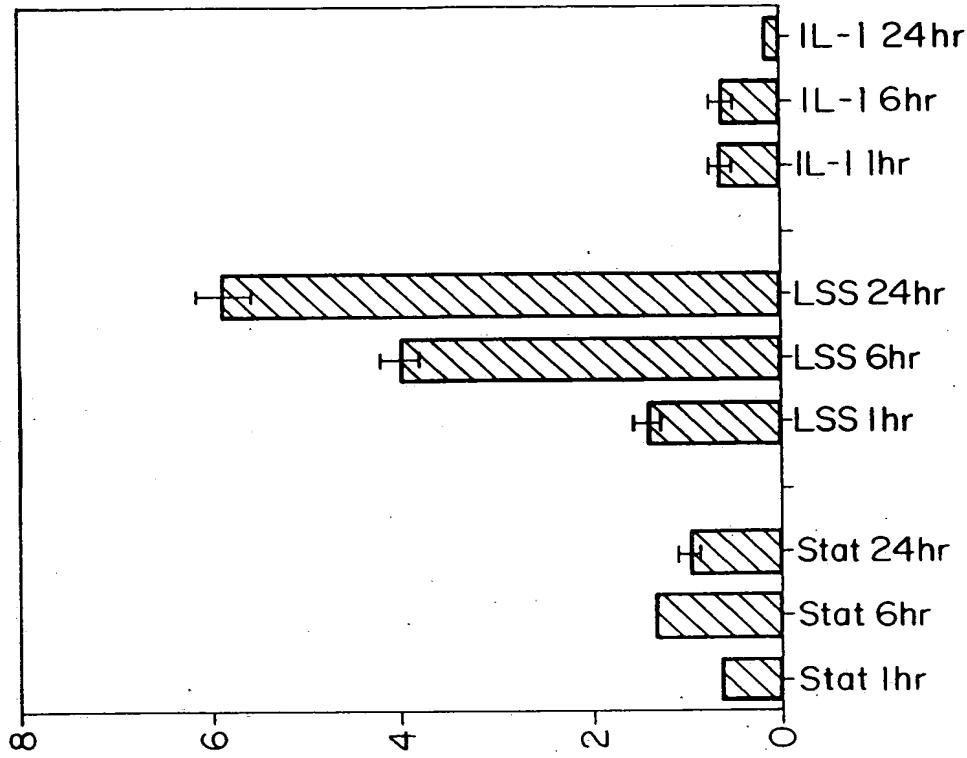
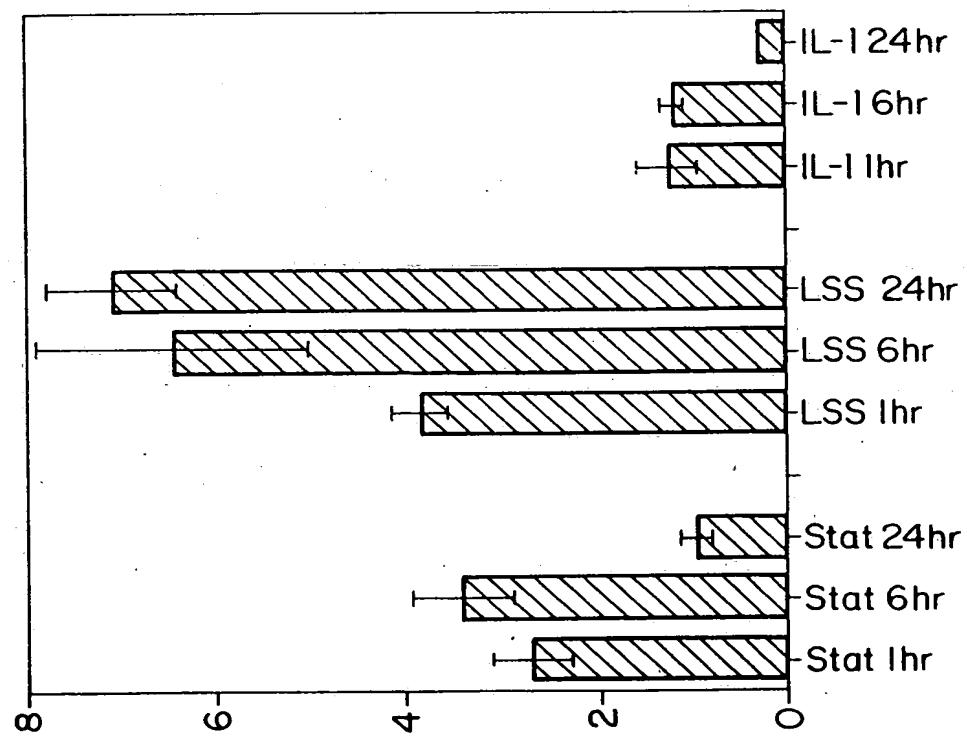


FIG. 3



Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCN1M

9/17

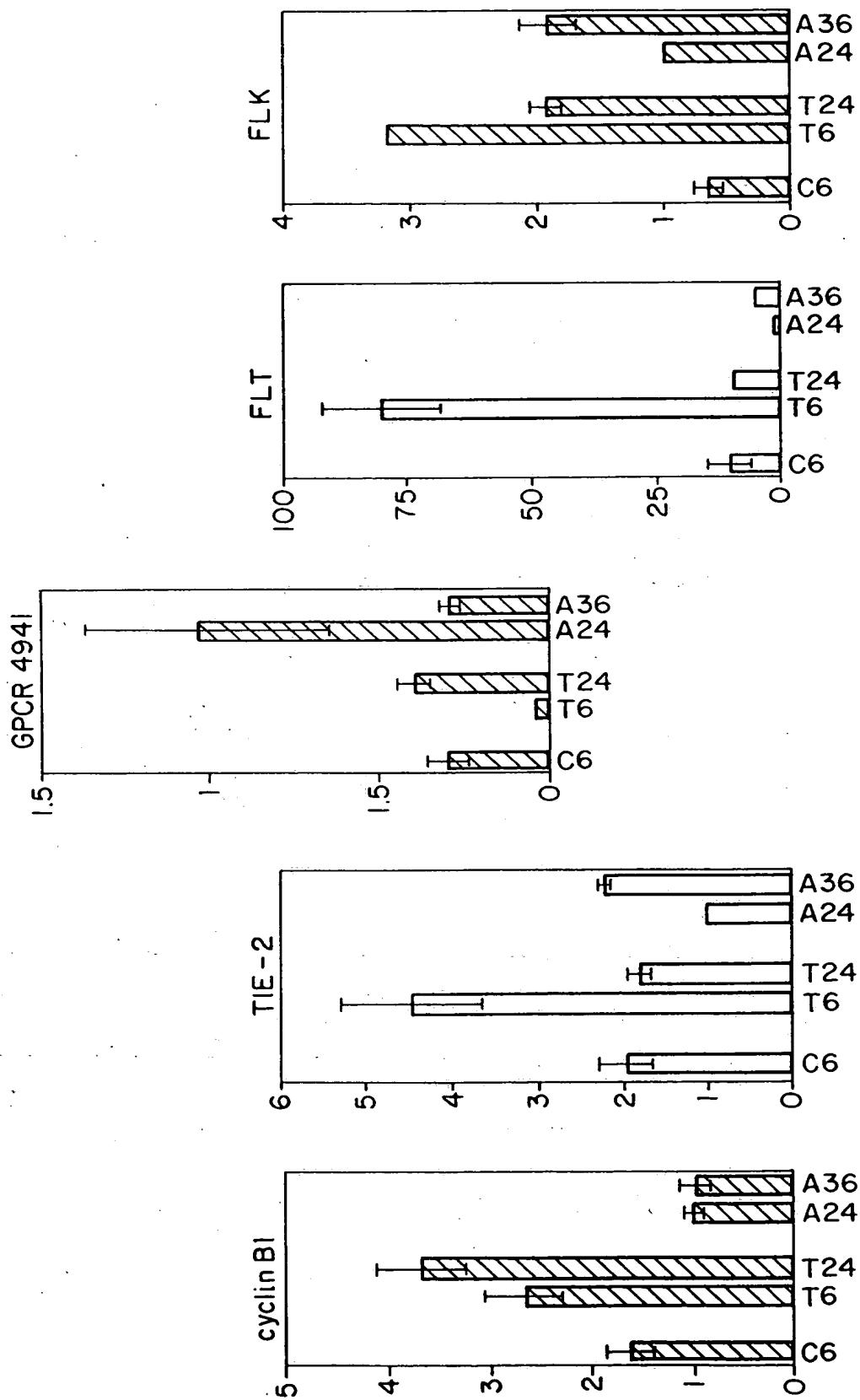


FIG. 4

Applicant: Galvin, Katherine M., et al.
Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCN1M

10/17

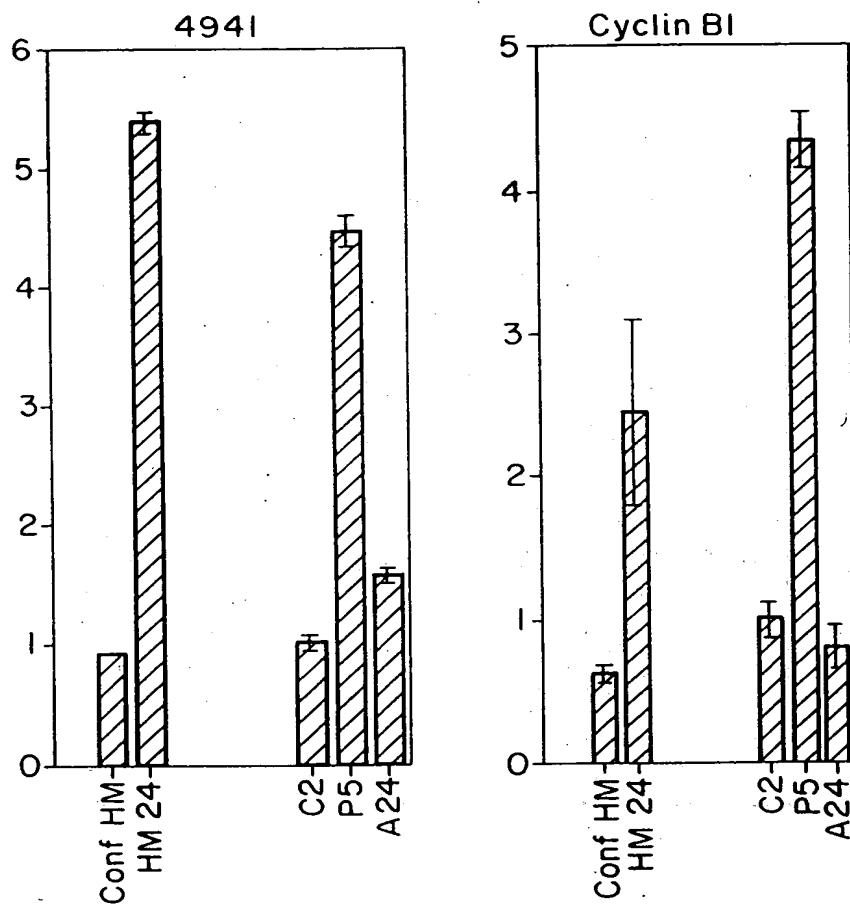


FIG. 5

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283PIRCN1M

11/17

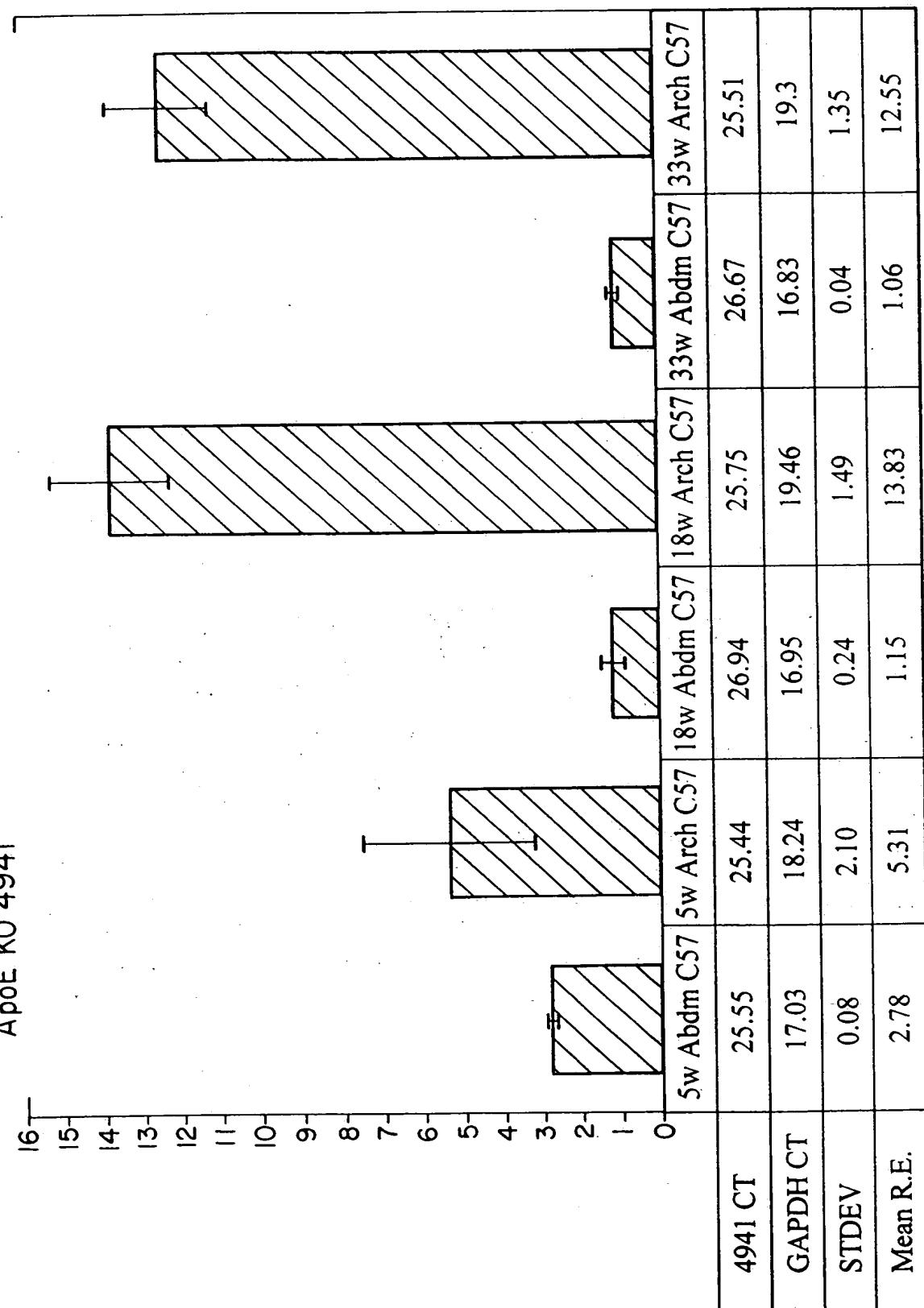


FIG. 6

Applicant: Galvin, Katherine M., et al.
Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941
Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCN1M

12/17

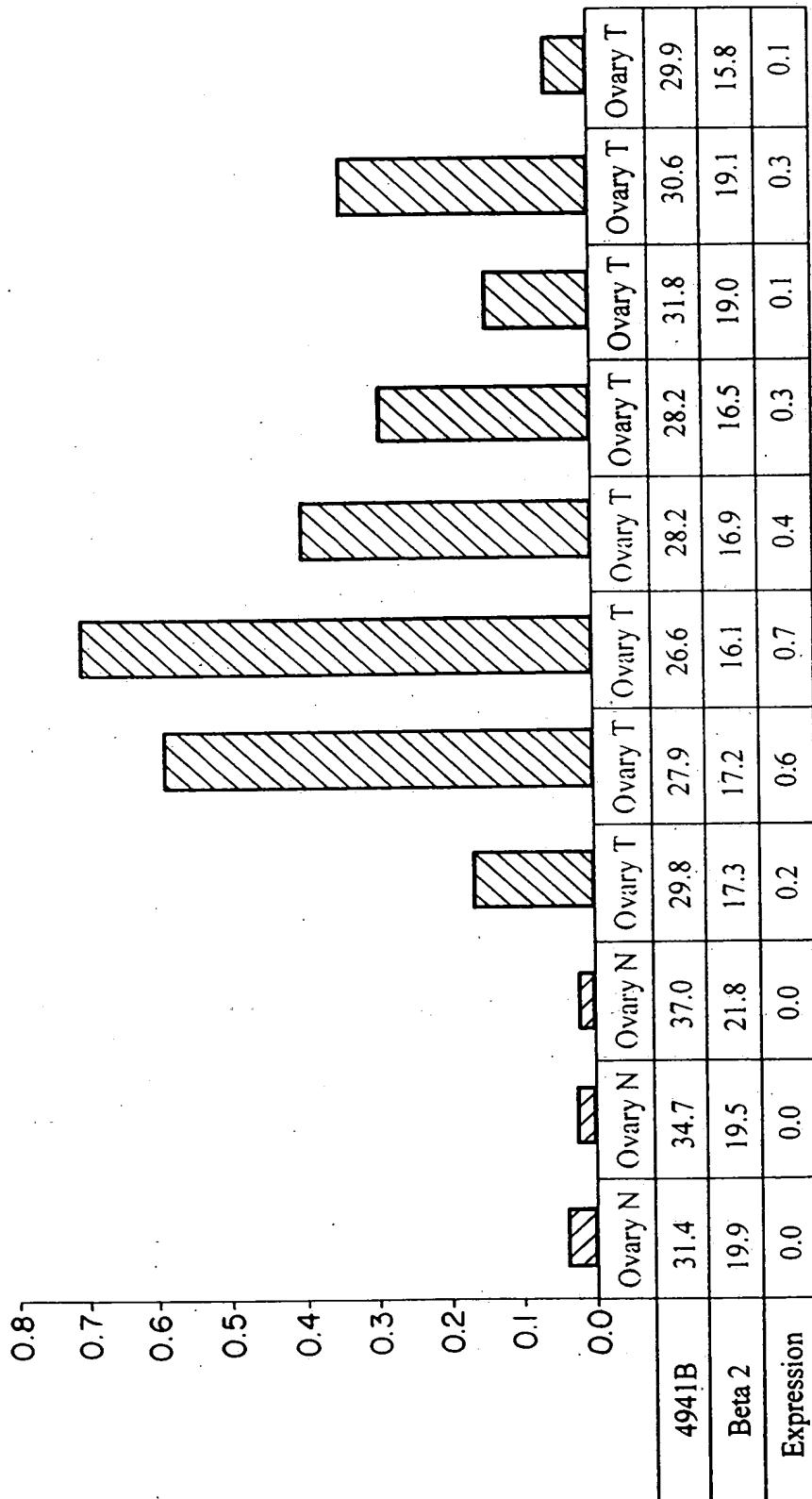


FIG. 7A

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

13/17

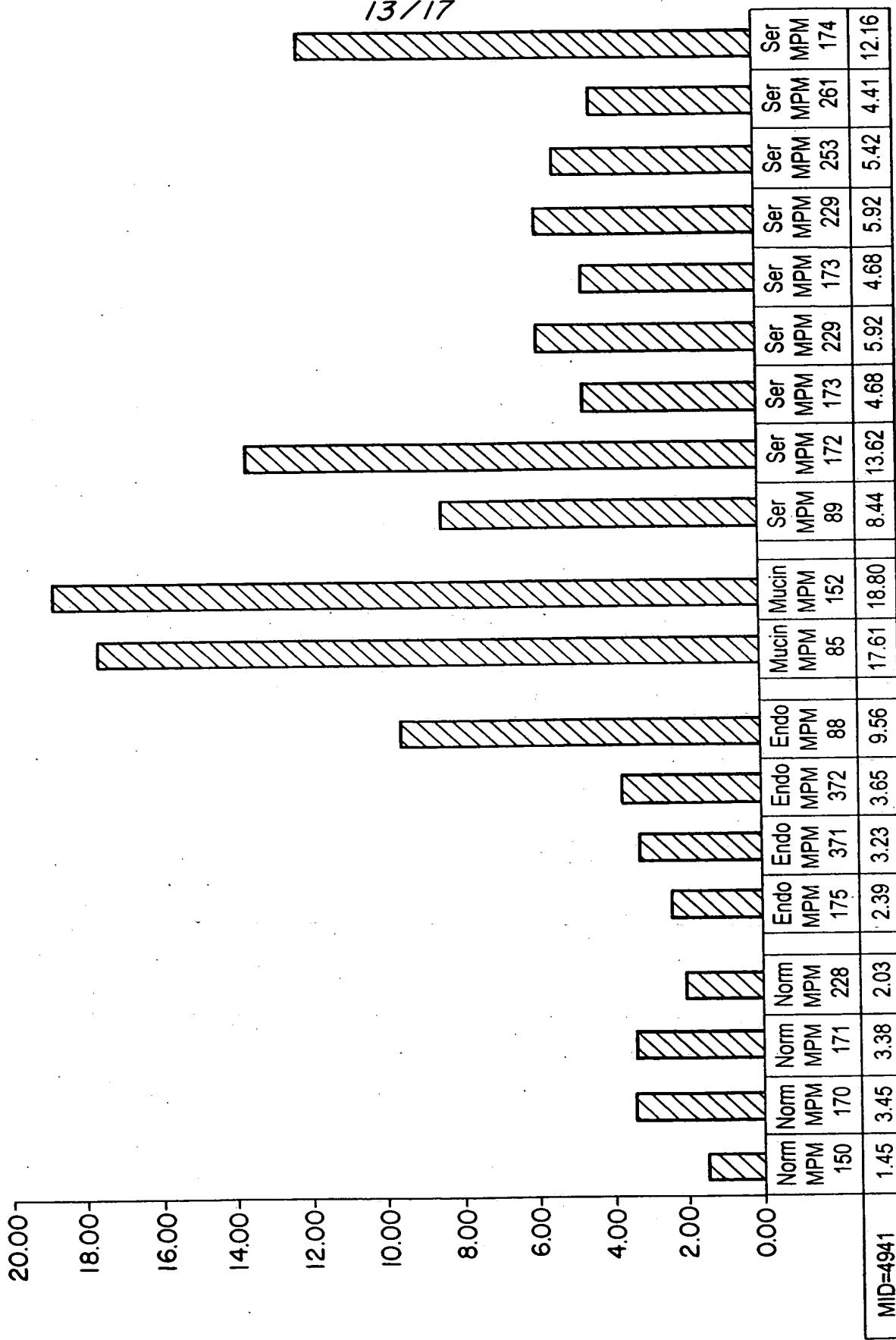


FIG. 7B

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941Attorney/Agent: Jean M. Silveri
Docket No.: MPI99-283P1RCN1M

14/17

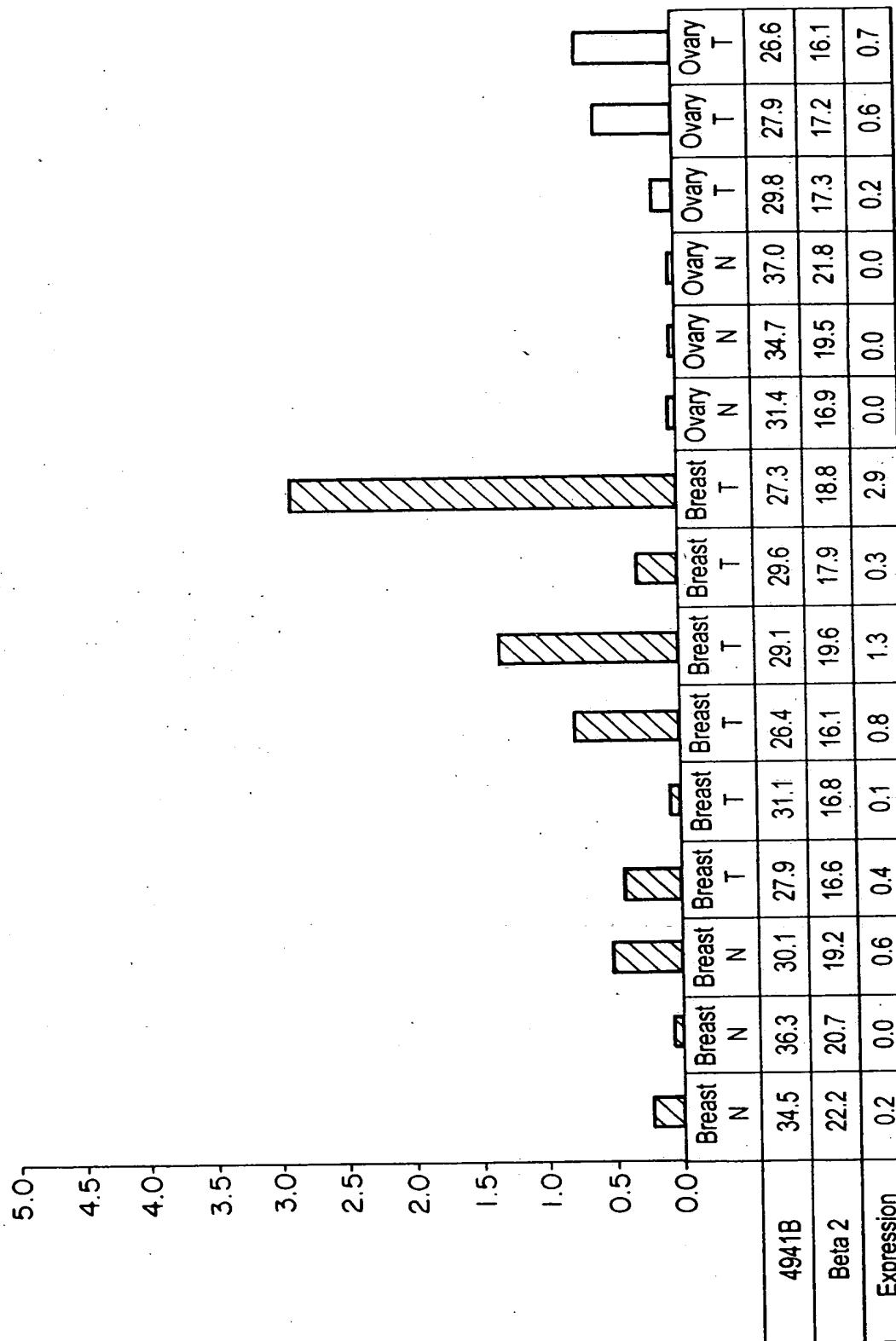


FIG. 8A

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

15/17

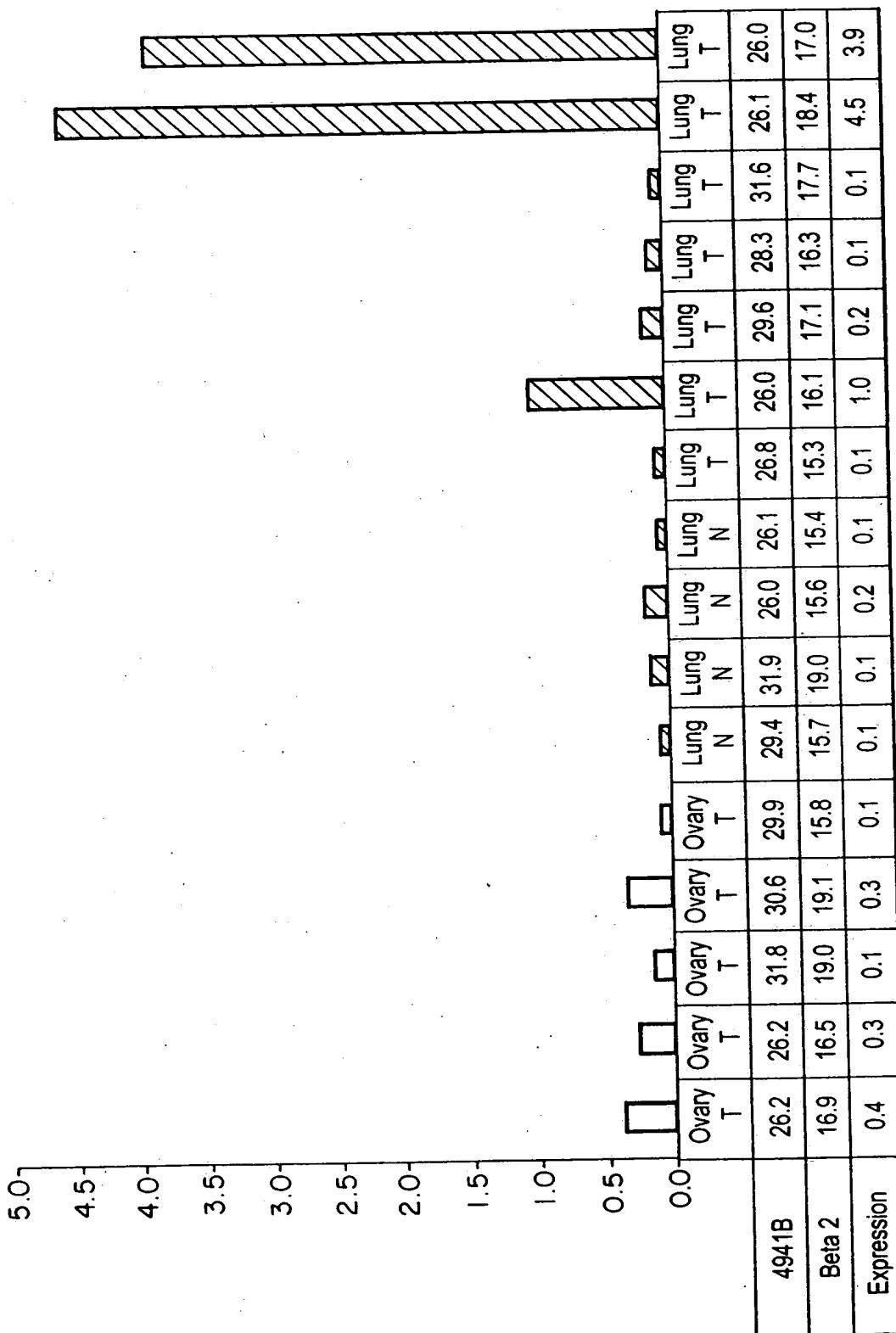


FIG. 8B

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCN1M

16 / 17

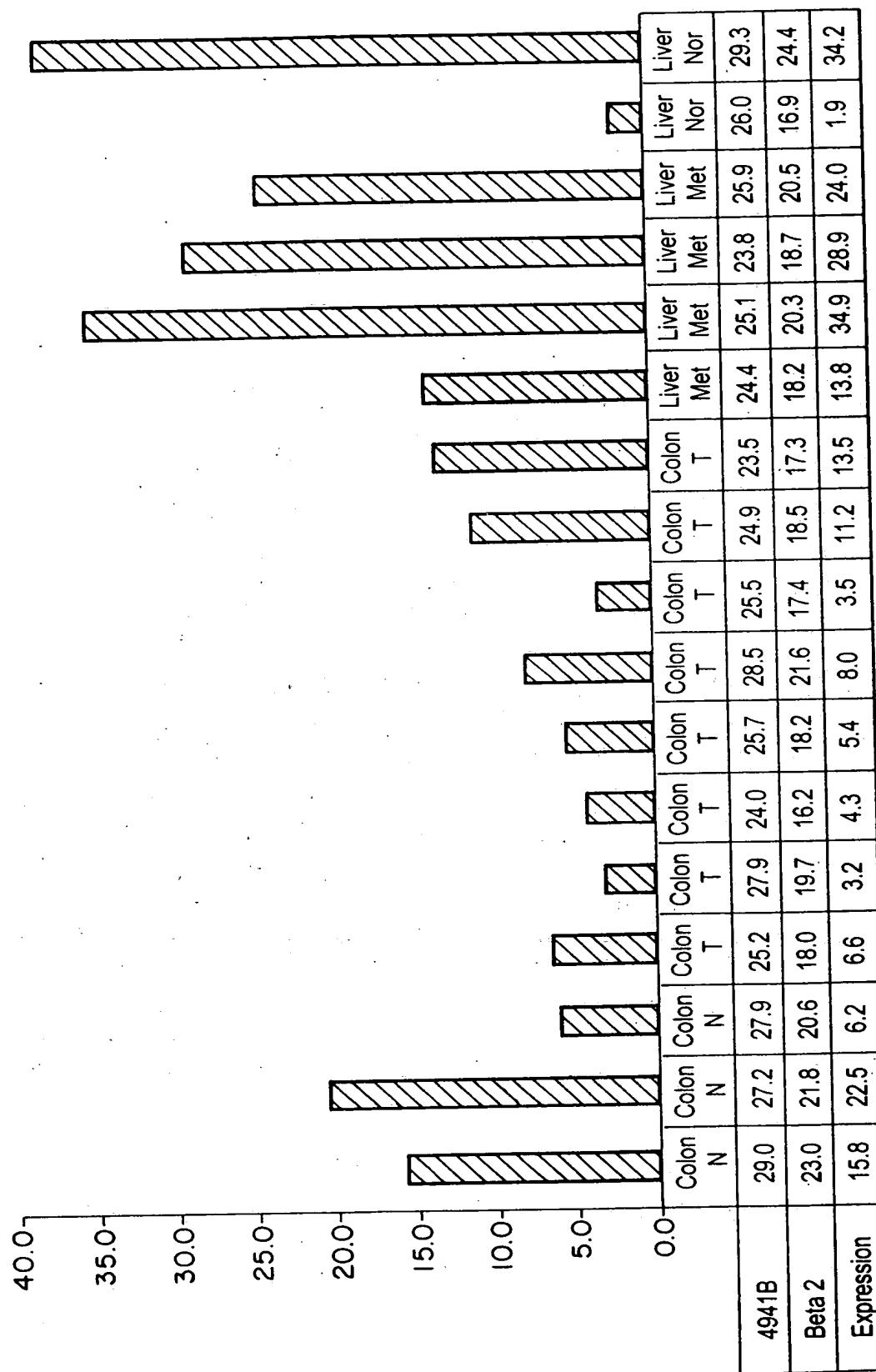


FIG. 8C

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283P1RCNIM

17/17

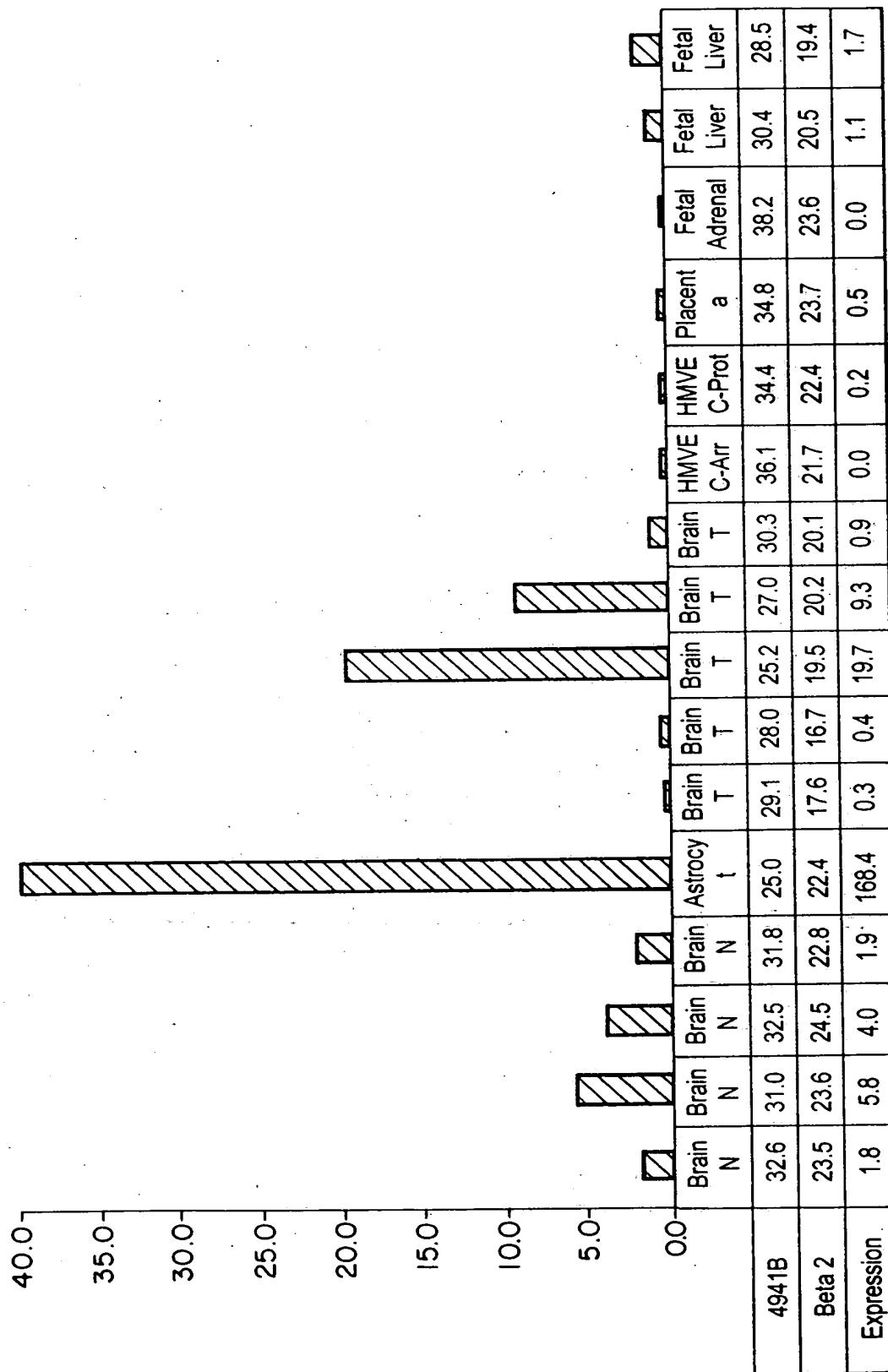


FIG. 8D